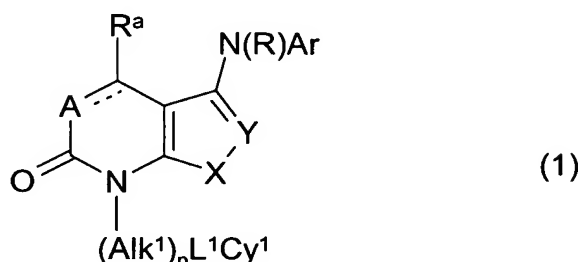


This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A compound of formula (1):



wherein:

the dashed line joining A and C(R^a) is present and represents a bond and A is a -N= atom or a -C(R^b)= group, or the dashed line is absent and A is a -N(R^b)-, or -C(R^b)(R^c)- group;

R^a, R^b and R^c ~~is~~ are each independently a hydrogen atom or an optionally substituted C₁₋₆alkyl, -CN, -CO₂H, -CO₂R¹ (~~where R¹ is an optionally substituted alkyl group~~), -CONH₂, -CONHR¹ or -CONR¹R² group (~~where R² is an optionally substituted alkyl group~~);

R¹ and R² are each, independently, an optionally substituted alkyl group;

R is a hydrogen atom or a straight or branched C₁₋₆ alkyl group;

X is an -O-, -S- or substituted nitrogen atom or a -S(O)-, -S(O₂)- or -NH- group;

Y is a nitrogen or substituted carbon atom or a -CH= group;

n is zero or the integer 1;

Alk¹ is an optionally substituted aliphatic or heteroaliphatic chain;

L¹ is a covalent bond or a linker atom or group;

Cy¹ is a hydrogen atom or an optionally substituted cycloaliphatic, polycycloaliphatic, heterocycloaliphatic, polyheterocycloaliphatic, aromatic or heteroaromatic group;

Ar is an optionally substituted aromatic or heteroaromatic group;
or a pharmaceutically acceptable salt, solvate, hydrate, or N-oxide thereof
~~and the salts, solvates, hydrates and N-oxides thereof.~~

2. (original) A compound according to Claim 1 wherein R is a hydrogen atom.
3. (currently amended) A compound according to Claim 1 ~~or Claim 2~~ wherein R^a is a hydrogen atom.
4. (currently amended) A compound according to ~~any one of Claims 1 to 3~~ Claim 1 wherein the dashed line joining A and C(R^a) is present and A is a ~~-(CR^b)=~~ -C(R^b)= group.
5. (original) A compound according to Claim 4 wherein R^b is a hydrogen atom.
6. (currently amended) A compound according to ~~any one of Claims 1 to 5~~ Claim 1 wherein X is an -O- or -S- atom.
7. (original) A compound according to Claim 6 wherein X is a -S- atom.
8. (currently amended) A compound according to ~~any one of Claims 1 to 7~~ Claim 1 wherein L¹ is a covalent bond.
9. (currently amended) A compound according to ~~any one of Claims 1 to 8~~ Claim 1 wherein n is the integer 1 and Alk¹ is an optionally substituted C₁₋₆alkylene chain.
10. (original) A compound according to Claim 9 wherein Alk¹ is a -CH₂- or -CH₂CH₂- chain.
11. (currently amended) A compound according to ~~any one of Claims 1 to 8~~ Claim 1 wherein n is zero.
12. (currently amended) A compound according to ~~any one of Claims 1 to 11~~ Claim 1 wherein Cy¹ is an optionally substituted cycloaliphatic, aromatic or heteroaromatic group.

13. (original) A compound according to Claim 12 wherein Cy^1 is an optionally substituted C_{3-7} cycloalkyl group.

14. (original) A compound according to Claim 13 wherein Cy^1 is a cyclopropyl group.

15. (original) A compound according to Claim 12 wherein Cy^1 is an optionally substituted phenyl group.

16. (original) A compound according to Claim 15 wherein Cy^1 is a phenyl group.

17. (currently amended) A compound according to Claim 15 wherein

Cy^1 is a phenyl group substituted by one, two or three atoms or groups R^{10a} or $-L^6Alk^5(R^{10a})_{1-3}$; where

R^{10a} is a halogen atom, or an amino ($-NH_2$), substituted amino, nitro, cyano, hydroxyl ($-OH$), substituted hydroxyl, formyl, carboxyl ($-CO_2H$), esterified carboxyl, thiol ($-SH$), substituted thiol, $-COR^{11}$ [where R^{11} is an $-L^6Alk^3(R^{10a})_{1-3}$ aryl or heteroaryl group in which Alk^3 is a straight or branched C_{1-3} alkylene chain], $-CSR^{11}$, $-SO_3H$, $-SOR^{11}$, $-SO_2R^{11}$, $-SO_3R^{11}$, $-SO_2NH_2$, $-SO_2NHR^{11}$, $-SO_2N(R^{11})_2$, $-CONH_2$, $-CSNH_2$, $-CONHR^{11}$, $-CSNHR^{11}$, $-CON(R^{11})_2$, $-CSN(R^{11})_2$, $-N(R^{12})SO_2R^{11}$ [where R^{12} is a hydrogen atom or a straight or branched alkyl group], $-N(SO_2R^{11})_2$, $-N(R^{12})SO_2NH_2$, $-N(R^{12})SO_2NHR^{11}$, $-N(R^{12})SO_2N(R^{11})_2$, $-N(R^{12})COR^{11}$, $-N(R^{12})CONH_2$, $-N(R^{12})CONHR^{11}$, $-N(R^{12})CON(R^{11})_2$, $-N(R^{12})CSNH_2$, $-N(R^{12})CSNHR^{11}$, $-N(R^{12})CSN(R^{11})_2$, $-N(R^{12})CSR^{11}$, $-N(R^{12})C(O)OR^{11}$, $-C=NR^{12}(NR^{12})$, $-SO_2NHet^1$ [where $NHet^1$ is an optionally substituted C_{3-7} cyclicamino group optionally containing one or more other O or S atoms or $N(R^{12})$, $C(O)$ or $C(S)$ groups], $-CONHet^1$, $-CSNHet^1$, $-N(R^{12})SO_2NHet^1$, $-N(R^{12})CONHet^1$, $-N(R^{12})CSNHet^1$, $-SO_2N(R^{12})Het$ [where Het is an optionally substituted monocyclic C_{3-7} carbocyclic group optionally containing one or more other O or S atoms or $N(R^{12})$, $C(O)$, $S(O)$ or $S(O)_2$ groups], $-Het$, $-CON(R^{12})Het$, $-CSN(R^{12})Het$, $-N(R^{12})CON(R^{12})Het$, $-N(R^{12})CSN(R^{12})Het$, $-N(R^{12})SO_2N(R^{12})Het$, aryl or heteroaryl groups group;

R^{11} is an $-L^6Alk^3(R^{10a})_{1-3}$ aryl or heteroaryl group;

Alk^3 is a straight or branched C_{1-3} alkylene chain;

R¹² is a hydrogen atom or a straight or branched alkyl group;

-NHet¹ is an optionally substituted C₃₋₇cyclicamino group optionally containing one or more -O- or -S- atoms or -N(R¹²)-, -C(O)- or -C(S)- groups;

-Het is an optionally substituted monocyclic C₃₋₇carbocyclic group optionally containing one or more -O- or -S- atoms or -N(R¹²)-, -C(O)-, -S(O)- or -S(O)₂- groups;

L⁶ is a covalent bond or a linker atom or group;

Alk⁵ is an optionally substituted straight or branched C₁₋₆alkylene, C₂₋₆alkenylene or C₂₋₆alkynylene chain, optionally interrupted by one, two or three -O- or -S- atoms or -S(O)_n- [where n is an integer 1 or 2] or -N(R¹²)- e.g. N(CH₃)- groups;

n is the integer 1 or 2; and

r is zero or the integer 1, 2, or 3.

18. (currently amended) A compound ~~as claimed in~~ according to Claim 12 wherein Cy¹ is an optionally substituted furyl, thienyl, pyrrolyl, oxazolyl, thiazolyl, pyridyl, pyrimidinyl, triazinyl or indolyl group.

19. (currently amended) A compound ~~as claimed in~~ according to Claim 18 wherein Cy¹ is a thienyl, pyridyl or indolyl group.

20. (currently amended) A compound according to Claim 18 wherein each of said Cy¹ groups is substituted by one, two or three atoms or groups R^{10a} or -L⁶Alk⁵(R^{10a}) wherein as defined in Claim 17

R^{10a} is a halogen atom, or an amino (-NH₂), substituted amino, nitro, cyano, hydroxyl (-OH), substituted hydroxyl, formyl, carboxyl (-CO₂H), esterified carboxyl, thiol (-SH), substituted thiol, -COR¹¹, -CSR¹¹, -SO₃H, -SOR¹¹, -SO₂R¹¹, -SO₃R¹¹, -SO₂NH₂, -SO₂NHR¹¹, -SO₂N(R¹¹)₂, -CONH₂, -CSNH₂, -CONHR¹¹, -CSNHR¹¹, -CON(R¹¹)₂, -CSN(R¹¹)₂, -N(R¹²)SO₂R¹¹, -N(SO₂R¹¹)₂, -N(R¹²)SO₂NH₂, -N(R¹²)SO₂NHR¹¹, -N(R¹²)SO₂N(R¹¹)₂, -N(R¹²)COR¹¹, -N(R¹²)CONH₂, -N(R¹²)CONHR¹¹, -N(R¹²)CON(R¹¹)₂, -N(R¹²)CSNH₂, -N(R¹²)CSNHR¹¹, -N(R¹²)CSN(R¹¹)₂, -N(R¹²)CSR¹¹, -N(R¹²)C(O)OR¹¹, -C=NR¹²(NR¹²), -SO₂NHet¹, -CONHet¹, -CSNHet¹, -N(R¹²)SO₂NHet¹, -N(R¹²)CONHet¹, -N(R¹²)CSNHet¹,

-SO₂N(R¹²)Het, -Het, -CON(R¹²)Het, -CSN(R¹²)Het, -N(R¹²)CON(R¹²)Het,

-N(R¹²)CSN(R¹²)Het, -N(R¹²)SO₂N(R¹²)Het, aryl or heteroaryl group;

R¹¹ is an -L⁶Alk³(R^{10a})_r, aryl or heteroaryl group;

Alk³ is a straight or branched C₁₋₃alkylene chain;

R¹² is a hydrogen atom or a straight or branched alkyl group;

-NHet¹ is an optionally substituted C₃₋₇cyclicamino group optionally containing one or more -O- or -S- atoms or -N(R¹²)-, -C(O)- or -C(S)- groups;

-Het is an optionally substituted monocyclic C₃₋₇carbocyclic group optionally containing one or more -O- or -S- atoms or -N(R¹²)-, -C(O)-, -S(O)- or -S(O)₂- groups;

L⁶ is a covalent bond or a linker atom or group;

Alk⁵ is an optionally substituted straight or branched C₁₋₆alkylene, C₂₋₆alkenylene or C₂₋₆alkynylene chain, optionally interrupted by one, two or three -O- or -S- atoms or -S(O)_n- or -N(R¹²)- groups;

n is the integer 1 or 2; and

r is zero or the integer 1, 2, or 3.

21. (currently amended) A compound according to ~~any one of Claims 1 to 20~~ Claim 1 wherein Y is a group -CH= or -C(R¹⁰)= where

R¹⁰ is an atom or group R^{10a} or -L⁶Alk⁵(R^{10a})_r; ~~as defined in Claim 17~~

R^{10a} is a halogen atom, or an amino (-NH₂), substituted amino, nitro, cyano, hydroxyl (-OH), substituted hydroxyl, formyl, carboxyl (-CO₂H), esterified carboxyl, thiol (-SH), substituted thiol, -COR¹¹, -CSR¹¹, -SO₃H, -SOR¹¹, -SO₂R¹¹, -SO₃R¹¹, -SO₂NH₂, -SO₂NHR¹¹, -SO₂N(R¹¹)₂, -CONH₂, -CSNH₂, -CONHR¹¹, -CSNHR¹¹, -CON(R¹¹)₂, -CSN(R¹¹)₂, -N(R¹²)SO₂R¹¹, -N(SO₂R¹¹)₂, -N(R¹²)SO₂NH₂, -N(R¹²)SO₂NHR¹¹, -N(R¹²)SO₂N(R¹¹)₂, -N(R¹²)COR¹¹, -N(R¹²)CONH₂, -N(R¹²)CONHR¹¹, -N(R¹²)CON(R¹¹)₂, -N(R¹²)CSNH₂, -N(R¹²)CSNHR¹¹, -N(R¹²)CSN(R¹¹)₂, -N(R¹²)CSR¹¹, -N(R¹²)C(O)OR¹¹, -C=NR¹²(NR¹²), -SO₂NHet¹, -CONHet¹, -CSNHet¹, -N(R¹²)SO₂NHet¹, -N(R¹²)CONHet¹, -N(R¹²)CSNHet¹, -SO₂N(R¹²)Het, -Het, -CON(R¹²)Het, -CSN(R¹²)Het, -N(R¹²)CON(R¹²)Het, -N(R¹²)CSN(R¹²)Het, -N(R¹²)SO₂N(R¹²)Het, aryl or heteroaryl group;

R¹¹ is an -L⁶Alk³(R^{10a})_r, aryl or heteroaryl group;

Alk³ is a straight or branched C₁₋₃alkylene chain;

R¹² is a hydrogen atom or a straight or branched alkyl group;

-NHet¹ is an optionally substituted C₃₋₇cyclicamino group optionally containing one or more -O- or -S- atoms or -N(R¹²)-, -C(O)- or -C(S)- groups;

-Het is an optionally substituted monocyclic C₃₋₇carbocyclic group optionally containing one or more -O- or -S- atoms or -N(R¹²)-, -C(O)-, -S(O)- or -S(O)₂- groups;

L⁶ is a covalent bond or a linker atom or group;

Alk⁵ is an optionally substituted straight or branched C₁₋₆alkylene, C₂₋₆alkenylene or C₂₋₆alkynylene chain, optionally interrupted by one, two or three -O- or -S- atoms or -S(O)_n- or -N(R¹²)- groups;

n is the integer 1 or 2; and

r is zero or the integer 1, 2, or 3.

22. (currently amended) A compound according to Claim 21 wherein R¹⁰ is a -CN, -X¹NH₂, ~~(where X¹ is a -C(O)- or -S(O)₂- group),~~ -X¹NHR¹¹, -X¹N(R¹¹)₂, -X¹NHet¹, -X¹N(R¹²)Het, -X¹N(R¹²)Alk⁵Het, -COR¹¹, -C=NR¹²(NR¹²) or esterified carboxyl group ~~where R¹¹, R¹², NHet¹, Het and Alk⁵ are as defined in claim 17; and~~
X¹ is a -C(O)- or -S(O)₂- group.

23. (original) A compound according to Claim 22 wherein R¹⁰ is a -CN, -CONH₂, -CONHR¹¹, -CON(R¹¹)₂, -CONHet¹, -CON(R¹²)Het, -CON(R¹²)Alk⁵Het or esterified carboxyl group.

24. (currently amended) A compound according to ~~any one of Claims 1 to 23~~ Claim 1 wherein Ar is an optionally substituted phenyl, furyl, thienyl, pyrrolyl, oxazolyl, thiazolyl, pyridyl, pyrimidinyl or triazinyl group.

25. (original) A compound according to Claim 24 wherein Ar is an optionally substituted phenyl group.

26. (currently amended) A compound according to Claim 25 wherein Ar is a phenyl group or a phenyl group substituted by one, two or three atoms or groups R^{10a} or $-L^6Alk^5(R^{10a})_r$ ~~as defined in Claim 17~~ where

R^{10a} is a halogen atom, or an amino ($-NH_2$), substituted amino, nitro, cyano, hydroxyl ($-OH$), substituted hydroxyl, formyl, carboxyl ($-CO_2H$), esterified carboxyl, thiol ($-SH$), substituted thiol, $-COR^{11}$, $-CSR^{11}$, $-SO_3H$, $-SOR^{11}$, $-SO_2R^{11}$, $-SO_3R^{11}$, $-SO_2NH_2$, $-SO_2NHR^{11}$, $-SO_2N(R^{11})_2$, $-CONH_2$, $-CSNH_2$, $-CONHR^{11}$, $-CSNHR^{11}$, $-CON(R^{11})_2$, $-CSN(R^{11})_2$, $-N(R^{12})SO_2R^{11}$, $-N(SO_2R^{11})_2$, $-N(R^{12})SO_2NH_2$, $-N(R^{12})SO_2NHR^{11}$, $-N(R^{12})SO_2N(R^{11})_2$, $-N(R^{12})COR^{11}$, $-N(R^{12})CONH_2$, $-N(R^{12})CONHR^{11}$, $-N(R^{12})CON(R^{11})_2$, $-N(R^{12})CSNH_2$, $-N(R^{12})CSNHR^{11}$, $-N(R^{12})CSN(R^{11})_2$, $-N(R^{12})CSR^{11}$, $-N(R^{12})C(O)OR^{11}$, $-C=NR^{12}(NR^{12})$, $-SO_2NHet^1$, $-CONHet^1$, $-CSNHet^1$, $-N(R^{12})SO_2NHet^1$, $-N(R^{12})CONHet^1$, $-N(R^{12})CSNHet^1$, $-SO_2N(R^{12})Het$, $-Het$, $-CON(R^{12})Het$, $-CSN(R^{12})Het$, $-N(R^{12})CON(R^{12})Het$, $-N(R^{12})CSN(R^{12})Het$, $-N(R^{12})SO_2N(R^{12})Het$, aryl or heteroaryl group;

R^{11} is an $-L^6Alk^3(R^{10a})_r$ aryl or heteroaryl group;

Alk^3 is a straight or branched C_{1-3} alkylene chain;

R^{12} is a hydrogen atom or a straight or branched alkyl group;

$-NHet^1$ is an optionally substituted C_{3-7} cyclicamino group optionally containing one or more $-O-$ or $-S-$ atoms or $-N(R^{12})-$, $-C(O)-$ or $-C(S)-$ groups;

$-Het$ is an optionally substituted monocyclic C_{3-7} carbocyclic group optionally containing one or more $-O-$ or $-S-$ atoms or $-N(R^{12})-$, $-C(O)-$, $-S(O)-$ or $-S(O)_2-$ groups;

L^6 is a covalent bond or a linker atom or group;

Alk^5 is an optionally substituted straight or branched C_{1-6} alkylene, C_{2-6} alkenylene or C_{2-6} alkynylene chain, optionally interrupted by one, two or three $-O-$ or $-S-$ atoms or $-S(O)_n-$ or $-N(R^{12})-$ groups;

n is the integer 1 or 2; and

r is zero or the integer 1, 2, or 3.

27. (currently amended) A compound ~~as described in each of the Examples herein~~ which is

ethyl 3-(phenylamino)-6-oxo-7-phenyl-6,7-dihydrothienof[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(2-chlorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(3-chlorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(4-chlorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[methyl(phenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(2-methoxyphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 6-oxo-7-phenyl-3-[(3-trifluoromethoxyphenyl)amino]-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(4-cyanophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(3-cyanophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(2-cyanophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(3-fluoro-4-methoxyphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(2,4-difluorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 6-oxo-7-phenyl-3-[(3-tolyl)amino]-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ammonium 6-oxo-3-(phenylamino)-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

3-(phenylamino)-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

6-oxo-3-(phenylamino)-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

6-oxo-7-phenyl-3-phenylamino-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

6-oxo-N-(2-piperidinoethyl)-3-(phenylamino)-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

6-oxo-3-(phenylamino)-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;
6-oxo-7-phenyl-3-phenylamino-6,7-dihydro-thieno[2,3-b]pyridine-2-carbonitrile;
3-(3-bromophenylamino)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-
carbonitrile;

3-(3-chlorophenylamino)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-
carbonitrile;

7-(2-chlorophenyl)-3-[(4-fluoro-3-methylphenyl)amino]-6-oxo-6,7-
dihydrothieno[2,3-b]pyridine-2-carbonitrile;

7-(2-chlorophenyl)-3-[(4-fluoro-3-methylphenyl)amino]-6-oxo-6,7-
dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-anilino-7-(2-chlorophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-anilino-7-(2-chlorophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(4-fluoro-3-methylphenyl)amino]-7-(4-methylphenyl)-6-oxo-6,7-
dihydrothieno[2,3-b]pyridine-2-carboxamide;

7-(4-methylphenyl)-3-[(3-methylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-
b]pyridine-2-carbonitrile;

7-(4-methylphenyl)-3-[(3-methylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-
b]pyridine-2-carboxamide;

7-cyclopropyl-3-[(4-fluoro-3-methylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-
b]pyridine-2-carbonitrile

7-cyclopropyl-3-[(4-fluoro-3-methylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-
b]pyridine-2-carboxamide;

7-cyclopropyl-3-[(3-methylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-
carbonitrile;

7-cyclopropyl-3-[(3-methylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-
carboxamide;

3-[(4-fluoro-3-methylphenyl)amino]-7-(2-methylphenyl)-6-oxo-6,7-
dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-[(2,4-difluorophenyl)amino]-7-(2-methylphenyl)-6-oxo-6,7-dihydrothieno[2,3-
b]pyridine-2-carbonitrile;

7-(2-methylphenyl)-3-[(3-methylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-
b]pyridine-2-carboxamide;

3-[(4-fluoro-3-methylphenyl)amino]-7-(2-methylphenyl)-6-oxo-6,7-
dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(2,4-difluorophenyl)amino]-7-(2-methylphenyl)-6-oxo-6,7-dihydrothieno[2,3-
b]pyridine-2-carboxamide;

ethyl 3-anilino-7-(1H-indol-5-yl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-
carboxylate;

3-anilino-7-(1H-indol-5-yl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;
ethyl 3-[(2-cyanophenyl)amino]-7-(1H-indol-5-yl)-6-oxo-6,7-dihydrothieno[2,3-
b]pyridine-2-carboxylate;

3-[(2-cyanophenyl)amino]-7-(1H-indol-5-yl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-
2-carboxamide;

ethyl 3-[(2-cyanophenyl)amino]-7-[1-(methylsulfonyl)-1H-indol-5-yl]-6-oxo-6,7-
dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(2-cyanophenyl)amino]-7-(1-methyl-1H-indol-5-yl)-6-oxo-6,7-
dihydrothieno[2,3-b]pyridine-2-carboxylate;

3-anilino-7-(cyclopropylmethyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-
carbonitrile;

ethyl 3-anilino-7-(cyclopropylmethyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-
carboxylate;

3-anilino-7-(cyclopropylmethyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-
carboxamide;

3-anilino-7-(cyclopropylmethyl)-N-methoxy-N-methyl-6-oxo-6,7-dihydrothieno[2,3-
b]pyridine-2-carboxamide;

ethyl 7-(cyclopropylmethyl)-3-[(2,4-difluorophenyl)amino]-6-oxo-6,7-
dihydrothieno[2,3-b]pyridine-2-carboxylate;

7-(cyclopropylmethyl)-3-[(2,4-difluorophenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-
b]pyridine-2-carboxamide;

7-(cyclopropylmethyl)-3-[(3-methylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-
b]pyridine-2-carbonitrile;

7-(cyclopropylmethyl)-3-[(4-fluoro-3-methylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

7-(cyclopropylmethyl)-3-[(2,4-dimethylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

7-(cyclopropylmethyl)-3-[(3,4-dimethylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

7-(cyclopropylmethyl)-3-[(3-methylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

7-(cyclopropylmethyl)-3-[(4-fluoro-3-methylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

7-(cyclopropylmethyl)-3-[(3-chloro-4-fluorophenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

7-(cyclopropylmethyl)-3-[(2,4-dimethylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

7-(cyclopropylmethyl)-3-[(3,4-dimethylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

ethyl 3-[(2-cyano-3-methylphenyl)amino]-7-(cyclopropylmethyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

3-[(2-cyano-3-methylphenyl)amino]-7-(cyclopropylmethyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-anilino-7-(cyclopropylmethyl)-6-oxo-N-(2-piperidin-1-ylethyl)-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

ethyl 3-[(3-bromophenyl)amino]-7-(cyclopropylmethyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

3-[(3-bromophenyl)amino]-7-(cyclopropylmethyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

ethyl 3-anilino-6-oxo-7-(3-thienyl)-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;
3-anilino-6-oxo-7-(3-thienyl)-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

ethyl 3-[(2-cyanophenyl)amino]-6-oxo-7-(3-thienyl)-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

3-[(2-cyanophenyl)amino]-6-oxo-7-(3-thienyl)-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

ethyl 3-[(4-fluoro-3-methylphenyl)amino]-6-oxo-7-(3-thienyl)-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

3-[(4-fluoro-3-methylphenyl)amino]-6-oxo-7-(3-thienyl)-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

ethyl 3-[(2,4-difluorophenyl)amino]-6-oxo-7-(3-thienyl)-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 6-oxo-7-phenyl-3-(pyridin-3-ylamino)-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(2-chloropyridin-3-yl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

3-[(6-methylpyridin-2-yl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-[(6-methylpyridin-2-yl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(6-chloropyridin-2-yl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-[(6-chloropyridin-2-yl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

ethyl 3-[(2-cyanophenyl)amino]-7-[4-(methylthio)phenyl]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(2-cyanophenyl)amino]-7-[4-(methylsulfinyl)phenyl]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

3-[(2-cyanophenyl)amino]-7-[4-(methylsulfinyl)phenyl]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

ethyl 3-anilino-7-[4-(methylthio)phenyl]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-anilino-7-[4-(methylsulfinyl)phenyl]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(3-methylphenyl)amino]-7-[4-(methylthio)phenyl]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(3-methylphenyl)amino]-7-[4-(methylsulfonyl)phenyl]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

3-[(3-methylphenyl)amino]-7-[4-(methylsulfonyl)phenyl]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

ethyl 3-anilino-6-oxo-7-[4-(pyrrolidin-1-ylmethyl)phenyl]-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(2,4-difluorophenyl)amino]-7-{4-[2-(2-methyl-1H-imidazol-1-yl)ethoxy]phenyl}-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

3-[(2,4-difluorophenyl)amino]-7-{4-[2-(2-methyl-1H-imidazol-1-yl)ethoxy]phenyl}-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

ethyl 3-[(2,4-difluorophenyl)amino]-6-oxo-7-(4-vinylphenyl)-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-anilino-6-oxo-7-(4-vinylphenyl)-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

3-anilino-6-oxo-7-(4-vinylphenyl)-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

ethyl 3-anilino-7-[4-(1,2-dihydroxyethyl)phenyl]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

3-anilino-7-[4-(1,2-dihydroxyethyl)phenyl]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(2,4-difluorophenyl)amino]-7-(4-{[(2R)-2,3-dihydroxypropyl]oxy}phenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

ethyl 3-[(2,4-difluorophenyl)amino]-7-(2-nitrophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

3-[(2,4-difluorophenyl)amino]-7-(2-nitrophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

ethyl 3-anilino-4-methyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

3-anilino-4-methyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridine-2-carboxamide;
3-[(2,4-difluorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridine-2-
sulfonamide;

ethyl 3-anilino-7-[2-(2-methoxyethoxy)ethyl]-6-oxo-6,7-dihydrothieno[2,3-
b]pyridine-2-carboxylate;

ethyl 3-[(2,4-difluorophenyl)amino]-6-oxo-7-(tetrahydro-2H-pyran-2-ylmethyl)-6,7-
dihydrothieno[2,3-*b*]pyridine-2-carboxylate;

ethyl 3-anilino-7-benzyl-6-oxo-6,7-dihydrothieno[2,3-*b*]pyridine-2-carboxylate;

3-anilino-7-benzyl-6-oxo-6,7-dihydrothieno[2,3-*b*]pyridine-2-carboxamide;

3-anilino-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridine-2-carbohydrazide;

ethyl 3-anilino-7-[4-(dimethylamino)phenyl]-6-oxo-6,7-dihydrothieno[2,3-*b*]pyridine-
2-carboxylate;

3-anilino-7-[4-(dimethylamino)phenyl]-N-methoxy-N-methyl-6-oxo-6,7-
dihydrothieno[2,3-*b*]pyridine-2-carboxamide;

3-anilino-7-[4-(dimethylamino)phenyl]-N-[3-(1H-imidazol-1-yl)propyl]-6-oxo-6,7-
dihydrothieno[2,3-*b*]pyridine-2-carboxamide;

3-anilino-7-[4-(dimethylamino)phenyl]-6-oxo-N-(2-piperidin-1-ylethyl)-6,7-
dihydrothieno[2,3-*b*]pyridine-2-carboxamide;

3-anilino-N,N-dimethyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridine-2-
carboxamide;

3-anilino-N,N-diethyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridine-2-
carboxamide;

3-anilino-N-methoxy-N-methyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridine-2-
carboxamide;

3-anilino-N-[3-(4-methylpiperazin-1-yl)propyl]-6-oxo-7-phenyl-6,7-
dihydrothieno[2,3-*b*]pyridine-2-carboxamide;

3-anilino-N-[3-(1H-imidazol-1-yl)propyl]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-
b]pyridine-2-carboxamide;

3-anilino-N-[2-(diethylamino)ethyl]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-
b]pyridine-2-carboxamide;

3-anilino-N-[2-(diethylamino)ethyl]-N-methyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-anilino-N-methyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-anilino-N-ethyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-anilino-N-(2-morpholin-4-ylethyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-anilino-N-[2-(dimethylamino)ethyl]-N-methyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-anilino-N-(3-morpholin-4-ylpropyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(2,4-difluorophenyl)amino]-N-methoxy-N-methyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(2,4-difluorophenyl)amino]-6-oxo-7-phenyl-N-(2-piperidin-1-ylethyl)-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-anilino-N-(2-hydroxy-1,1-dimethylethyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

ethyl 3-[(3-chloro-2-cyanophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(2-cyano-3-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(2-cyano-5-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(4-fluorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(4-fluorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(3-chloro-4-fluorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(2-cyanophenyl)amino]-7-(4-fluorophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(2-cyano-3-methylphenyl)amino]-7-(4-fluorophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(4-fluoro-3-methylphenyl)amino]-7-(4-fluorophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(4-fluoro-3-methylphenyl)amino]-7-(4-chlorophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(4-fluoro-3-methylphenyl)amino]-7-(3-methylphenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(3-methylphenyl)amino]-7-(3-methylphenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

3-[(2,4-difluorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-[(3-chloro-4-fluorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-[(2-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-[(3-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-[(3,5-dichlorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-[(3-nitrophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

6-oxo-7-phenyl-3-{[2-(trifluoromethoxy)phenyl]amino}-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-[(2,6-dichlorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-{[2-(difluoromethoxy)phenyl]amino}-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-[(2,6-difluorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-[(4-fluoro-2-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;
6-oxo-7-phenyl-3-({3-[(trifluoromethyl)thio]phenyl}amino)-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;
3-[(3-bromo-4-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;
3-[(3-bromo-2-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;
6-oxo-7-phenyl-3-{[3-(trifluoromethoxy)phenyl]amino}-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;
3-{[3-(methylthio)phenyl]amino}-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;
3-[(4-fluoro-3-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;
3-[(3-ethylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;
7-(4-fluorophenyl)-3-[(3-methylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;
3-[(2,4-difluorophenyl)amino]-7-(4-methoxyphenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;
3-[(2,4-difluorophenyl)amino]-7-(4-{[(2S)-2,3-dihydroxypropyl]oxy}phenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;
7-(4-acetylphenyl)-3-[(3-chlorophenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;
7-(2-chlorophenyl)-3-[(4-fluoro-3-methylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;
7-(2-chlorophenyl)-3-[(3-methylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;
3-[(2-hydroxyphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-[(3-hydroxyphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

7-(4-fluorophenyl)-3-[(3-methylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(2,4-difluorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

6-oxo-7-phenyl-3-{[3-(trifluoromethyl)phenyl]amino}-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(3,5-dichlorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(3-bromophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

6-oxo-7-phenyl-3-{[2-(trifluoromethoxy)phenyl]amino}-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-{[2-(difluoromethoxy)phenyl]amino}-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(2,6-dichlorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(3-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(3-bromo-4-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-{[3-(methylthio)phenyl]amino}-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

6-oxo-7-phenyl-3-{[3-(trifluoromethoxy)phenyl]amino}-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(4-fluoro-3-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

6-oxo-7-phenyl-3-({3-[(trifluoromethyl)thio]phenyl}amino)-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(3-ethylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

7-(2-chlorophenyl)-3-[(3-methylphenyl)amino]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(2-cyano-3-methylphenyl)amino]-7-(4-fluorophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(4-fluoro-3-methylphenyl)amino]-7-(4-fluorophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(2-cyanophenyl)amino]-7-(4-fluorophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(2-hydroxyphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(3-hydroxyphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(2-cyanophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(2-chlorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(3-cyanophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(2-cyano-3-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(2-cyano-5-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(3-chloro-4-fluorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(4-fluorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(3-chlorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-[(3-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbothioamide;

N,N-diethyl-3-[(3-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboximidamide;

3-[(3-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboximidamide;

3-[(2,4-difluorophenyl)amino]-N-(2-hydroxy-2-methylpropyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

methyl 2-({3-[(2,4-difluorophenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridin-2-yl}carbonyl)hydrazinecarboxylate;

3-[(3-chlorophenyl)amino]-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

ethyl 3-anilino-7-[4-(1-hydroxy-1-methylethyl)phenyl]-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

ethyl 3-[(2,4-difluorophenyl)amino]-7-{4-[(methylsulfonyl)amino]phenyl}-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

3-[(4-fluoro-3-methylphenyl)amino]-N-hydroxy-N-methyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

2-acetyl-3-anilino-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

N,N-diethyl-3-[(3-methylphenyl)amino]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboximidamide;

3-anilino-6-oxo-7-pyridin-3-yl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-anilino-6-oxo-7-pyridin-3-yl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-anilino-7-phenyl-2-(pyrrolidin-1-ylcarbonyl)thieno[2,3-b]pyridin-6(7H)-one;

3-anilino-7-phenyl-2-(piperidin-1-ylcarbonyl)thieno[2,3-b]pyridin-6(7H)-one;

3-anilino-2-[(4-ethylpiperazin-1-yl)carbonyl]-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

3-anilino-7-[4-(dimethylamino)phenyl]-2-(pyrrolidin-1-ylcarbonyl)thieno[2,3-b]pyridin-6(7H)-one;

3-[(2,4-difluorophenyl)amino]-2-(morpholin-4-ylcarbonyl)-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

3-{{6-oxo-7-phenyl-2-(pyrrolidin-1-ylcarbonyl)-6,7-dihydrothieno[2,3-b]pyridin-3-yl}amino} benzonitrile;

3-[(3-chlorophenyl)amino]-7-phenyl-2-(pyrrolidin-1-ylcarbonyl)thieno[2,3-b]pyridin-6(7H)-one;

3-[(2,4-difluorophenyl)amino]-7-phenyl-2-(pyrrolidin-1-ylcarbonyl)thieno[2,3-b]pyridin-6(7H)-one;

3-[(4-fluorophenyl)amino]-7-phenyl-2-(pyrrolidin-1-ylcarbonyl)thieno[2,3-b]pyridin-6(7H)-one; or

3-[(2,4-difluorophenyl)amino]-6-oxo-7-phenyl-N-pyrrolidin-3-yl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

or a pharmaceutically acceptable salt, solvate, hydrate, or N-oxide thereof

~~and the salts, solvates, hydrates and N-oxides thereof.~~

28. (currently amended) A pharmaceutical composition comprising a compound of ~~any one of Claims 1 to 27~~ Claim 1 together with one or more pharmaceutically acceptable carriers, excipients or diluents.